



TV Tuner Product

My Cinema Series

E3789
Revised Edition V5
April 2008

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Notices

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

This class B digital apparatus complies with Canadian ICES-003.

Safety information

Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Ensure that your power supply is set to the correct voltage in your area. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

Operation safety

- The ASUS My Cinema U-3000 TV Box becomes hot after prolonged use. Handle the TV Box with care to prevent discomfort from heat exposure. The heat will not affect the operation of the TV box so you may continue using it as desired.
- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, ensure that all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

About this guide

This user guide contains the information you need when installing and configuring the ASUS TV Tuner Card/Box.

How this guide is organized

This user guide contains the following parts:

- **Chapter 1: Hardware information**
This chapter lists the hardware setup procedures that you have to perform when installing the ASUS TV Tuner Card/Box.
- **Chapter 2: Software information**
This chapter gives information on how to install device drivers and applications for the ASUS TV Tuner Card/Box.
- **Appendix: Reference information**
This chapter includes information on the remote controller, the key table, and international TV systems and standards.

Where to find more information

Refer to the following sources for additional information and for product and software updates.

1. **ASUS website**
The ASUS website provides updated information on ASUS hardware and software products. Refer to the ASUS contact information.
2. **Optional documentation**
Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.



DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Instructions that you **MUST** follow to complete a task.



NOTE: Tips and additional information to help you complete a task.

Chapter 1

This chapter lists the hardware setup procedures that you have to perform when installing the ASUS TV Tuner Product.

Hardware information

1.1 System requirements

Before installing the ASUS TV Tuner Card/Box, ensure your computer system meets the following requirements:

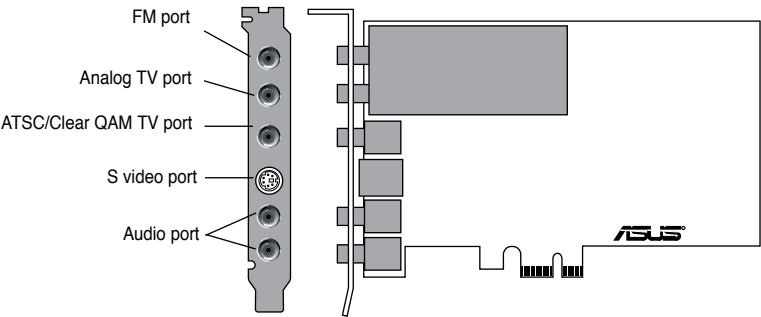
Item	Description
Slot	For PCI TV tuner card : One available PCI slot For PCI-E TV tuner card: One available PCI Express slot For TV box: One available USB 2.0 port For TV express card: One available Express Card port
Processor	For notebook: Intel® Pentium® M 1.3GHz or above is recommended For PC: Intel® Pentium® 4 2.6GHz or above is recommended
Memory	For XP/MCE: 512MB or higher is recommended For Vista Basic/Vista Premium: 1GB or higher is recommended
Graphics card	Graphics card with at least 32MB video memory
Optical drive	CD-ROM drive for driver installation
Hard disk space	At least 1GB free hard disk space For XP/MCE: 1GB or higher is recommended For Vista Basic/Vista Premium: 15GB or higher is recommended
Audio	Microsoft® DirectX-compatible audio device
Operating system	Microsoft® Windows® Vista Premium/Vista Basic/XP/MCE 2005
Software/utilities	Microsoft® DirectX 9.0 or higher Microsoft® Windows® Media Player 9 or higher

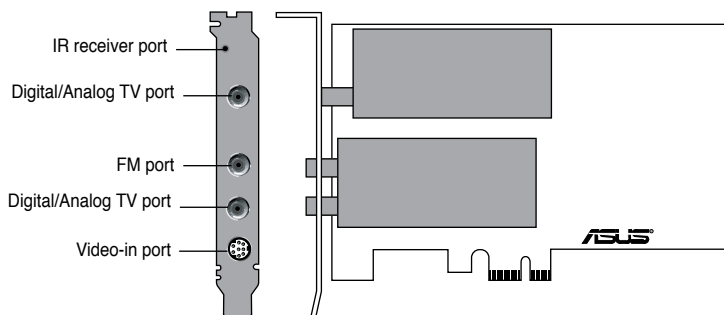
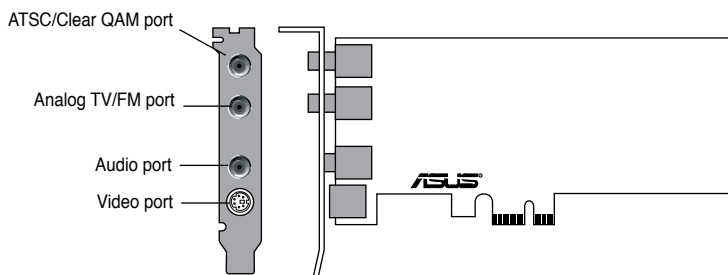
1.2 Card/Box layout



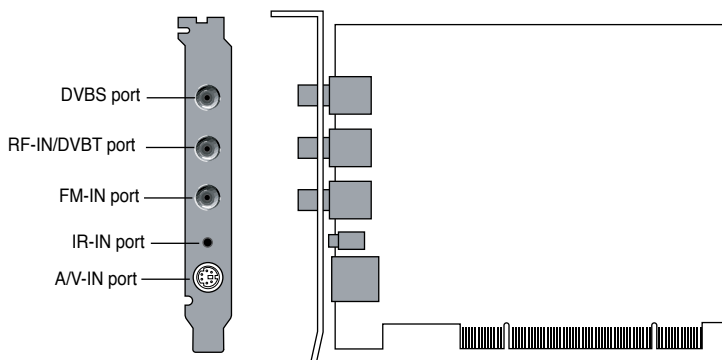
Drawings are for reference only. The actual device layout may vary.

(Combo/Dual Tuner) PCI-E / PCI TV card

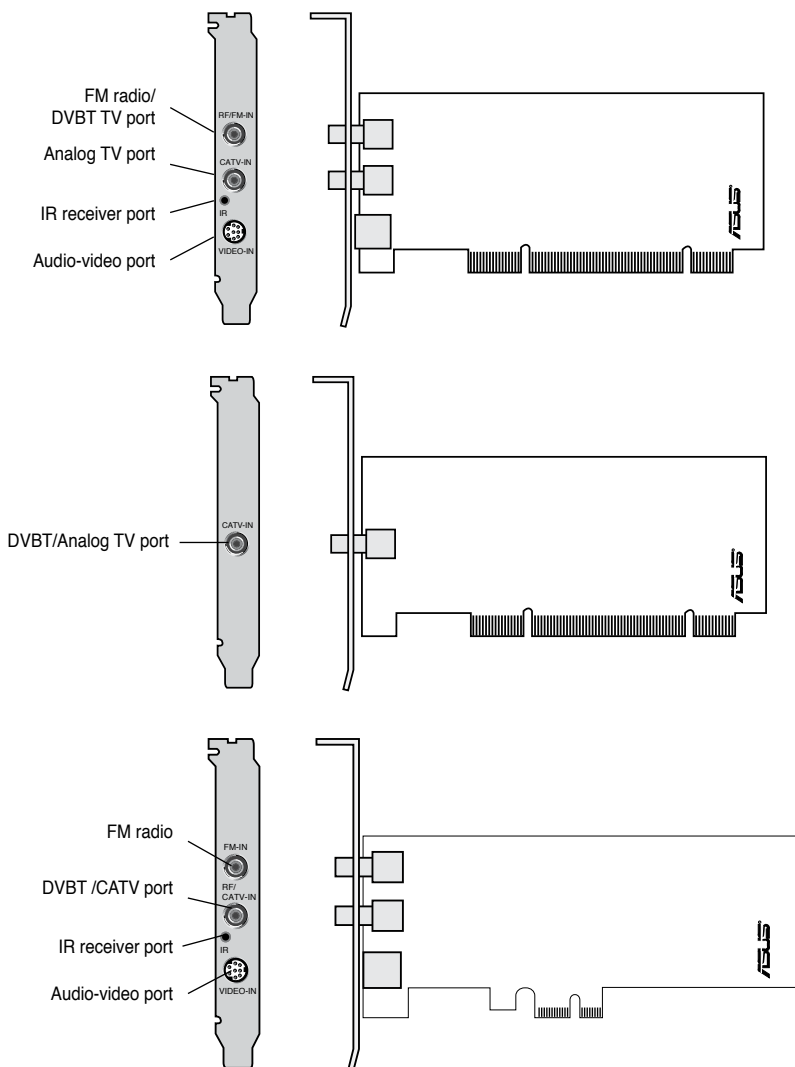


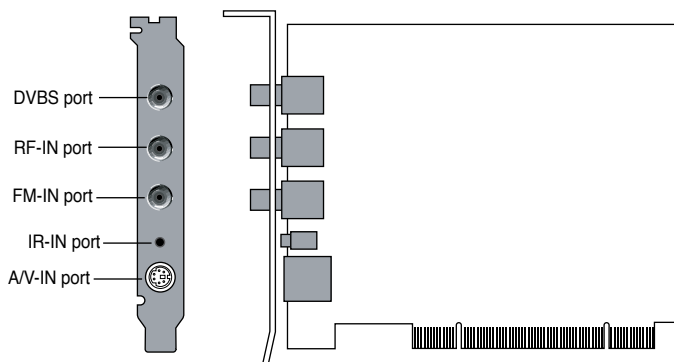


(Tri) PCI-E / PCI TV card

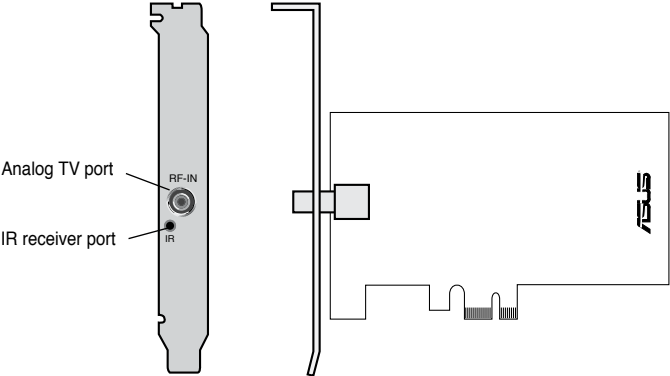
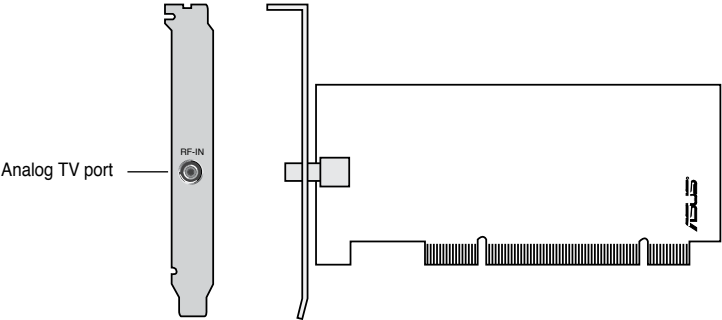
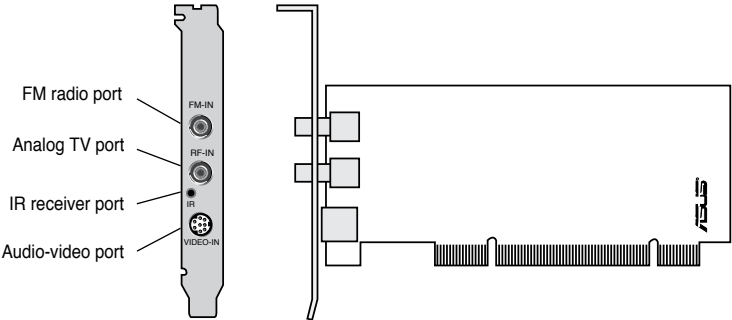


(Hybrid) PCI-E / PCI TV card

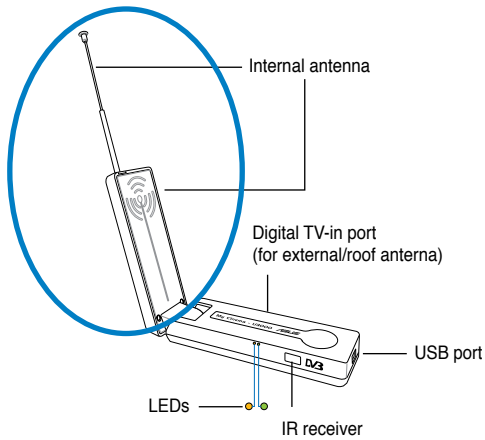




(Analog) PCI-E / PCI TV card

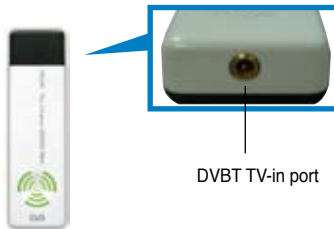


(Digital) USB TV box



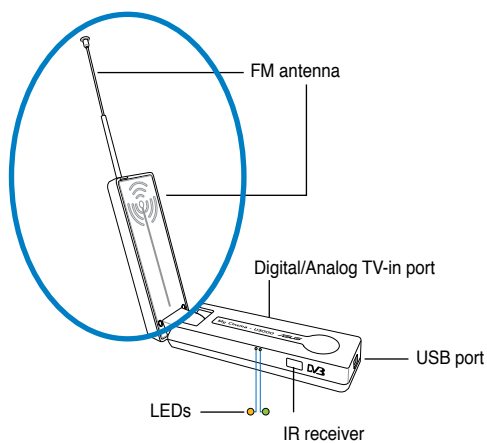
The internal antenna provides easy portability and digital TV reception when the roof/external antenna is not available.

(Digital) USB TV stick

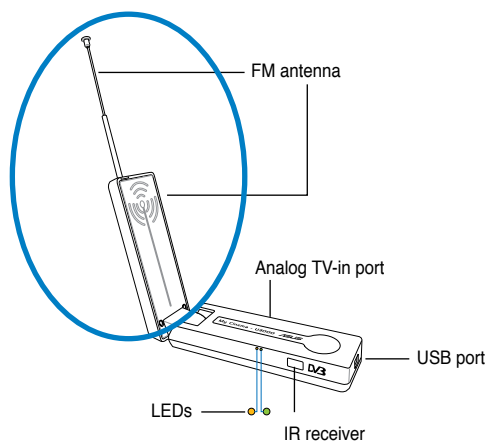


Refer to the LED information table on page 1-9.

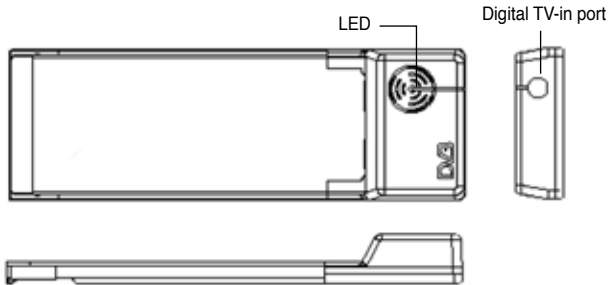
(Hybrid) USB TV box



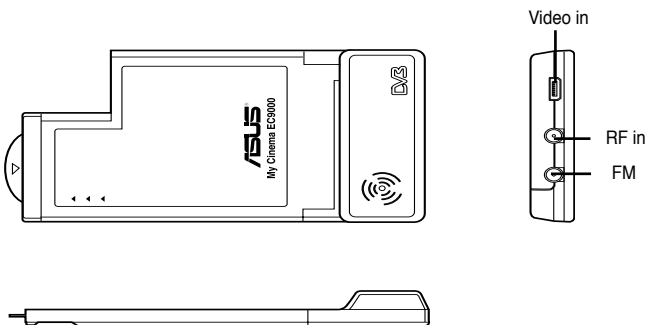
(Analog) USB TV box



(DVB-T) Express card



(Hybrid) Express card



Refer to the LED information table on page 1-9.

LED information

For models with two (2) LEDs

Color	Description
LED 1 (Green)	Good signal
LED 2 (Orange)	Poor signal

For models with one (1) LED

LED On/Off	Description
LED On	Good signal
LED Off	Poor signal

1.3 Before you proceed

Take note of the following precautions before you install the ASUS TV Tuner Card/Box.



-
- Unplug the power cord from the wall socket before touching any component.
 - Use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity.
 - Hold components by the edges to avoid touching the ICs on them.
 - Keep all components, such as the host adapter, in their antistatic bag until you are ready to install them. Likewise, whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with it.
 - Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard and peripherals.
-

1.4 Installation

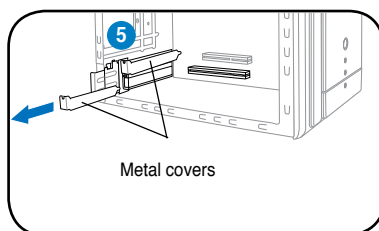


- You can install the ASUS TV Tuner Card/Box only on a motherboard with a PCI slot.
- Illustrations in this section are provided only for reference. Your system chassis and configuration may differ from what is shown.

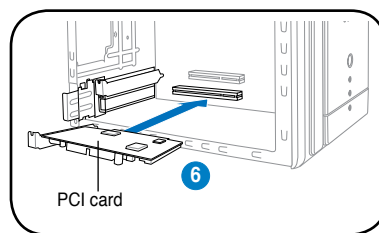
1.4.1 Installing the ASUS TV Tuner Card

To install the ASUS TV Tuner Card:

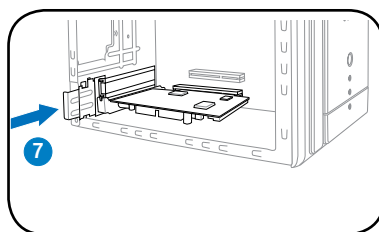
1. Unplug the power cord.
2. Remove the system unit cover. Refer to the documentation that came with your system for detailed instructions.
3. Locate the PCI bus expansion slot. Ensure that this slot is unobstructed.
4. Unlock the expansion card cover.
5. Remove the metal cover opposite the slot that you intend to use.



6. Align the card connector with the slot and press firmly until the card is completely seated on the slot.



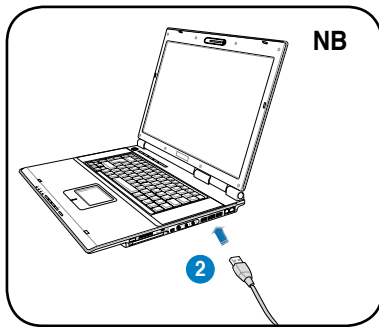
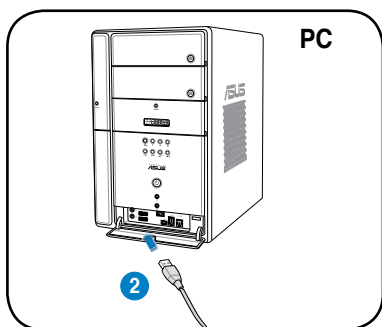
7. Replace the expansion card lock to secure the card to the chassis.



1.4.2 Installing the ASUS USB TV Box/Stick

To install the ASUS USB TV Box:

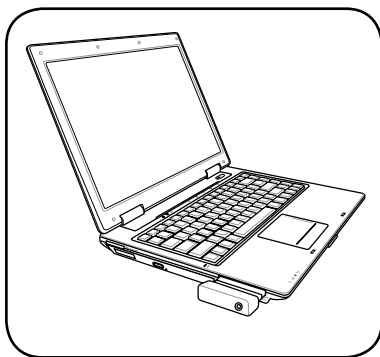
1. Place the ASUS USB TV Box on a flat, stable surface close to your computer.
2. Connect the USB cord A series plug to the USB 2.0 port on your computer.



1.4.3 Installing the ASUS TV Express Card

To install the ASUS TV Express Card:

1. Place your notebook or desktop computer on a flat, stable surface.
2. Locate the Express Card port.
3. Connect the ASUS TV Express Card to the Express Card port on your computer.



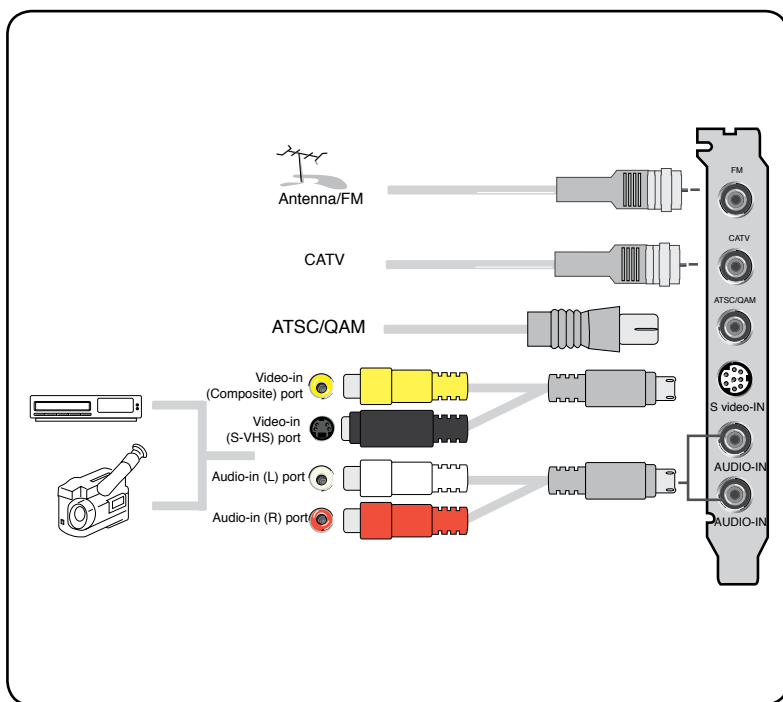
1.5 Connecting cables and devices

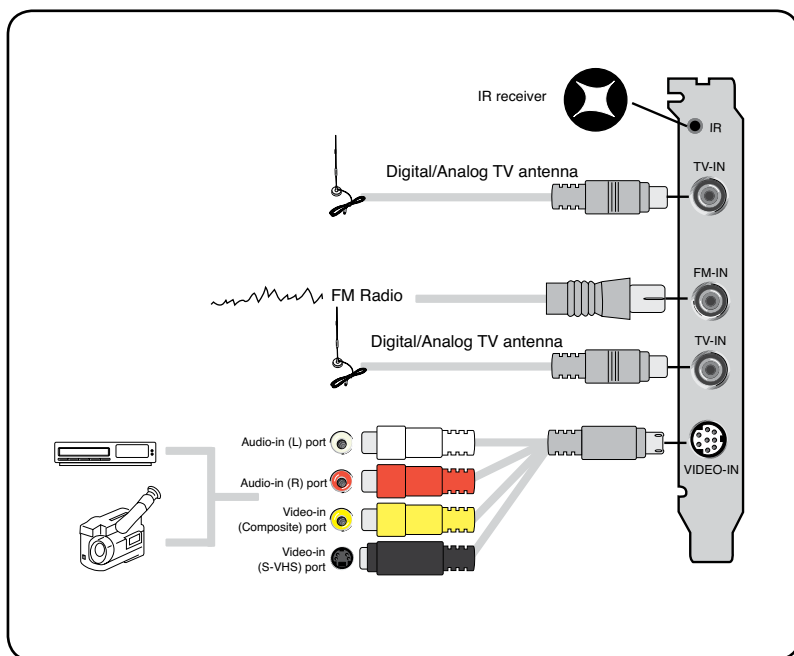
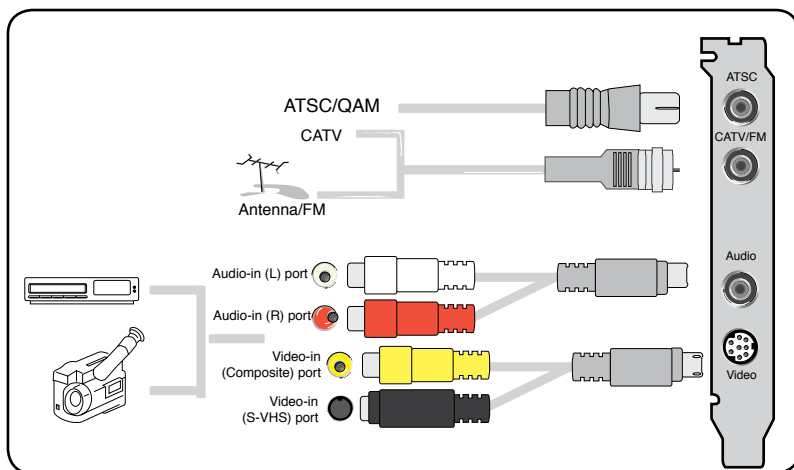


There are various types of cable TV (CATV) and antenna connections. Consult your dealer for the type of adapter, splitter, A/B switch, or combiner that may be required when connecting the ASUS TV Tuner Card/Box to devices.

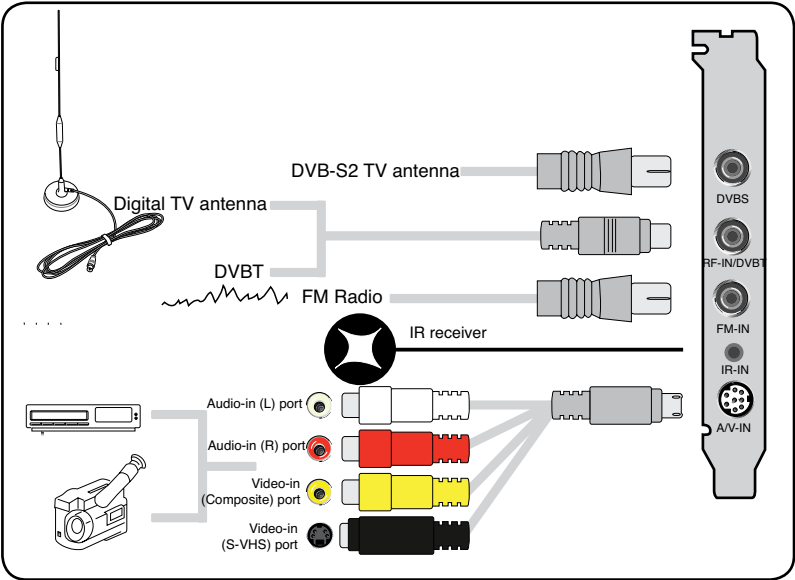
The ASUS TV Tuner Card/Box can receive up to 100 channels. If you do not have a CATV system, you may use an indoor or outdoor antenna that carries only VHF channels, UHF channels, or both VHF and UHF channels to connect to the ASUS TV Tuner Card/Box.

1.5.1 (Combo/Dual Tuner) TV card

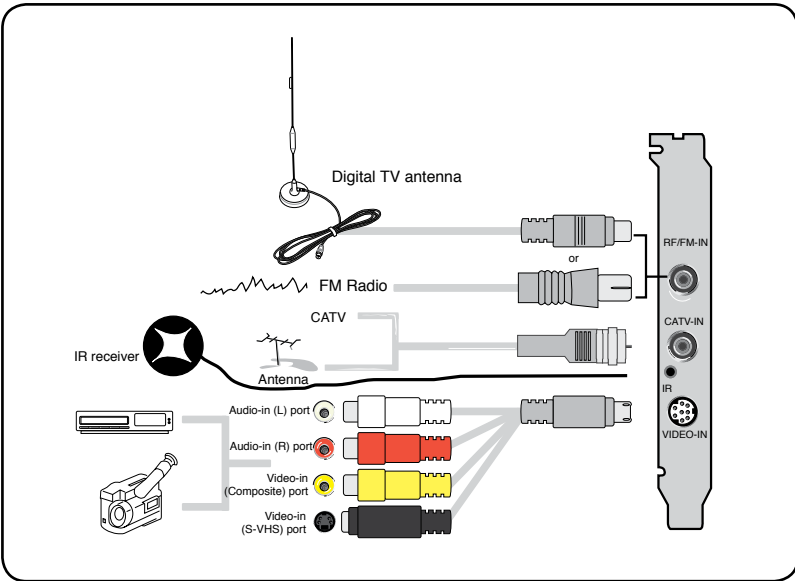


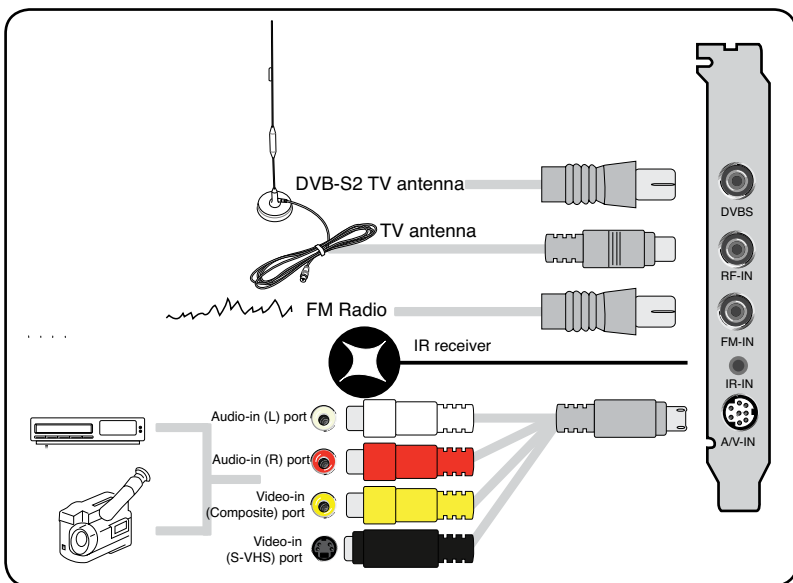
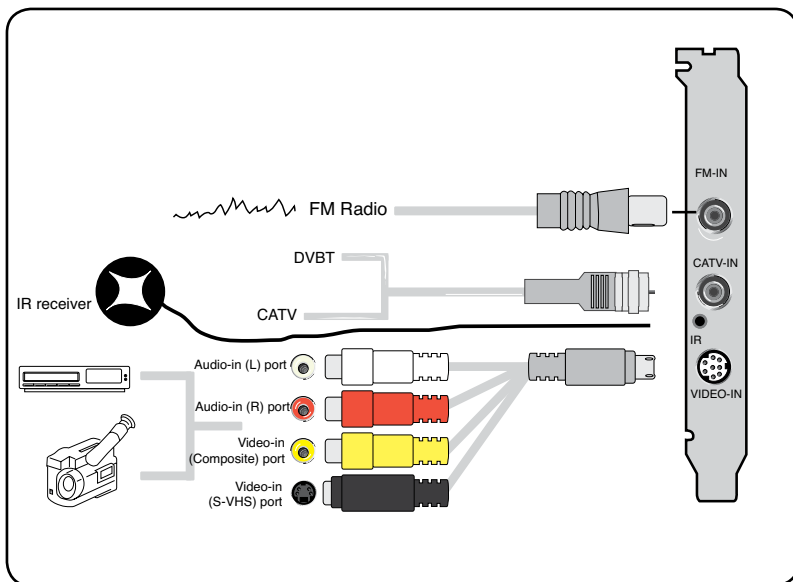


1.5.2 (Tri) TV card



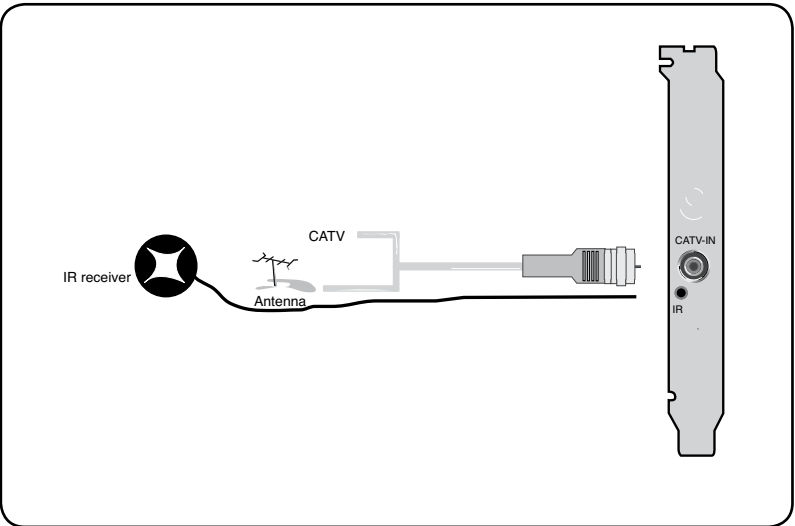
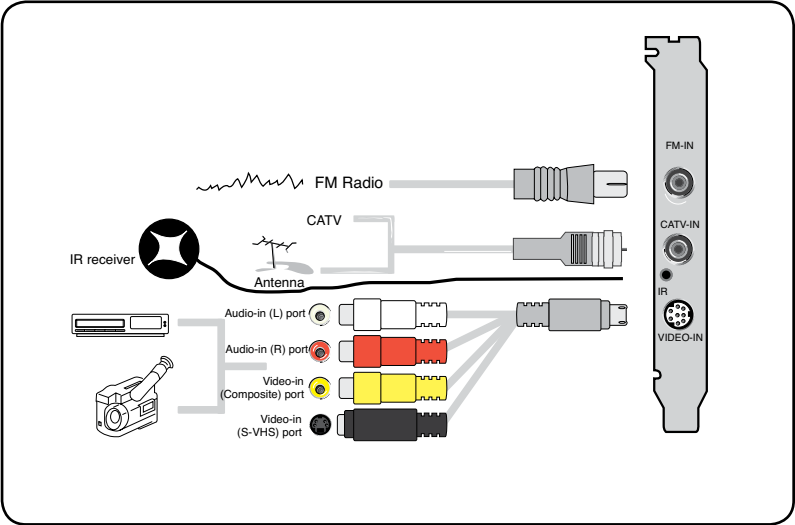
1.5.3 (Hybrid) TV card



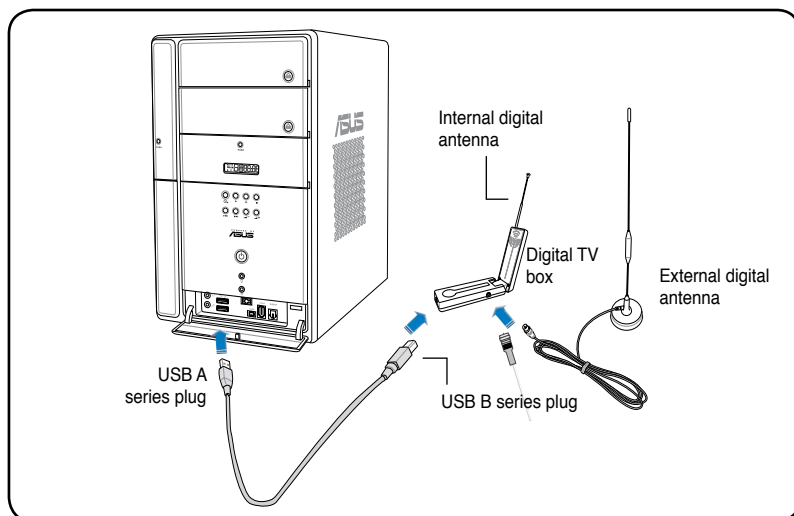


You may connect the Hybrid TV card to all devices as shown in the illustration above. For the Analog TV card, you cannot connect the digital TV antenna.

1.5.4 (Analog) TV card

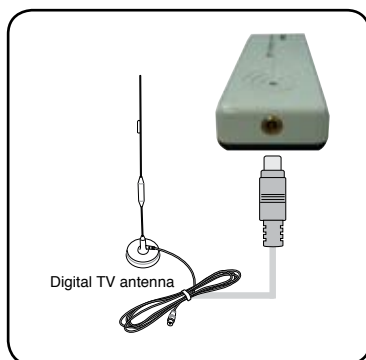


1.5.5 (Digital) USB TV box

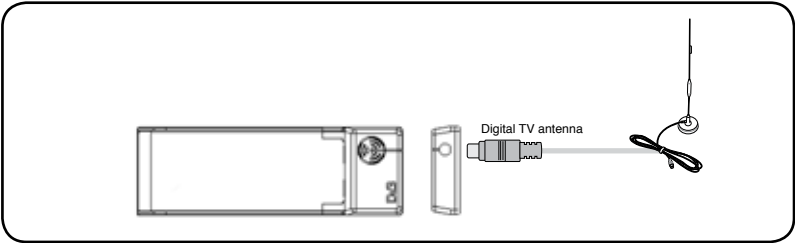


- The ASUS My Cinema U9000 Diversity TV Box has an internal antenna. You may use it, or you may also connect an external antenna/roof antenna to the U9000 through an MCX-to-IEC adapter.
- The internal antenna provides easy portability and digital TV reception when the roof/external antenna is not available.

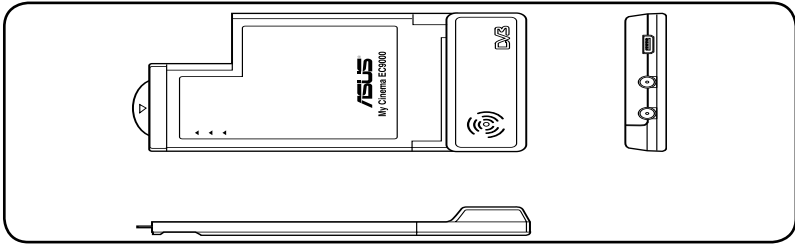
(Digital) USB TV stick



1.5.6 (DVB-T) Express Card

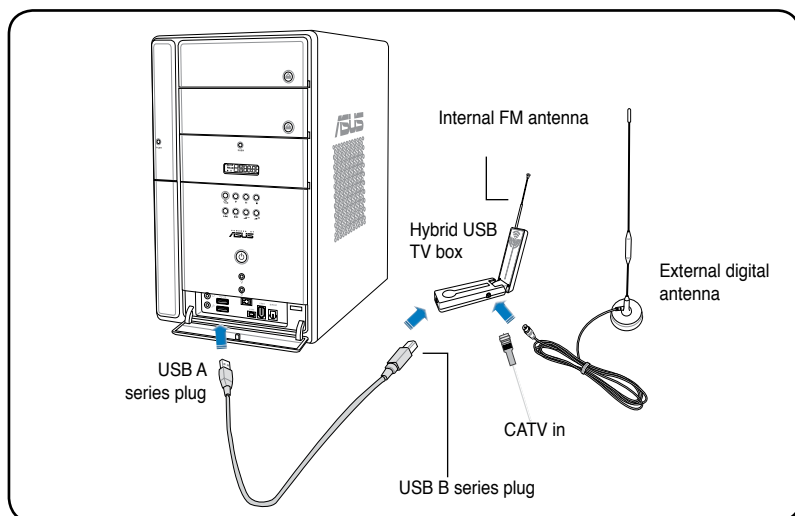


1.5.7 (Hybrid) Express Card

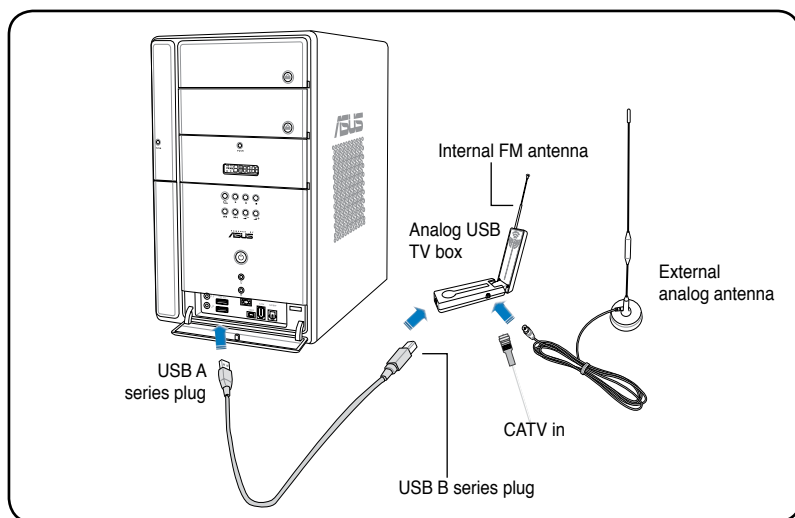


For ATSC Hybrid Express Card, the sequence of the components may be different.

1.5.8 (Hybrid) USB TV box



1.5.9 (Analog) USB TV box



Chapter 2

This chapter gives information on how to install device drivers and applications for the ASUS TV Tuner Product.

Software information

2.1 Device driver installation

You need to install the device drivers to your computer so you can use the ASUS TV Tuner Card/Box. Refer to this section when installing the device drivers.



- Ensure that Windows® XP is installed on your system.
- The screens shown in this section may not exactly match the contents displayed on your screen. Contents of the support CD may change any time without notice.

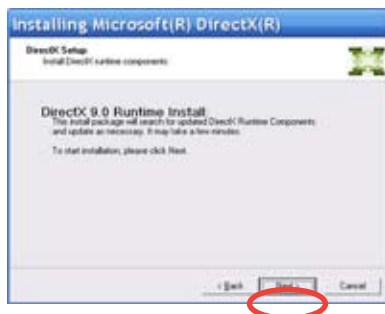
2.1.1 Installing Microsoft® DirectX®

Microsoft® Direct[®] X allows 3D hardware acceleration support in Windows® 98, Windows® 2000, and Windows® XP.

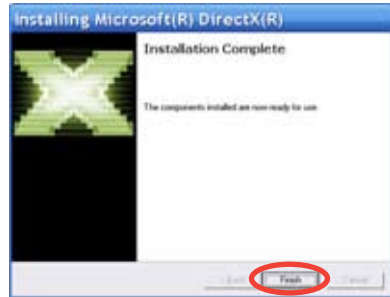


- Ensure that you install Microsoft® DirectX® *before* installing the ASUS TV Tuner Card driver.
- For software MPEG support in Windows® 98, you must first install Microsoft® Direct[®] X, then install a MPEG-compliant video player.

1. Insert the installation CD in the optical drive, or double-click the CD drive in My Computer to display the auto-run screen. You may also run Setup32.exe in the directory AutoRun of the CD.
2. Read the Microsoft® End User License Agreement. Click **I accept the agreement**, then **Next**.
3. The DirectX(R) Setup box appears. Click **Next** to begin installation.
4. The installation program automatically installs the DirectX® 9.0 runtime libraries into your system.



5. This message appears when setup is complete. Click **OK** to finish the installation process.



2.1.2 Installing the driver

Using the ASUS Quick Setup Program (Windows® XP/Vista Basic) for the ASUS TV Tuner Card/Box/Stick

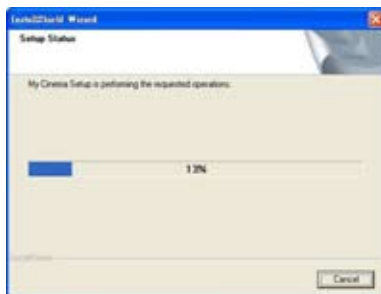
1. Start your computer.
2. Windows® automatically detects the ASUS TV Tuner Card/Box and displays the Found New Hardware Wizard window. Click **Cancel**.



3. Insert the support CD into the optical drive. The Drivers & Utilities setup screen appears. Click the radio button for **Windows® XP/Vista Basic**. Click **Install Drivers**.



4. A progress bar appears to indicate the installation status.

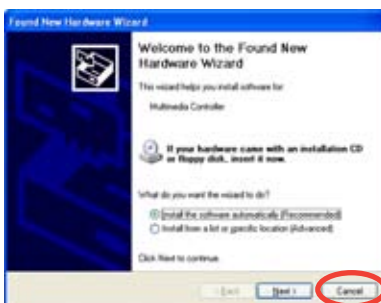


5. After all necessary files have been installed in your system, click **Finish** to complete the installation process.



Using the ASUS Quick Setup Program (Windows® Media Center Edition [MCE] 2005/Vista Premium) for the ASUS TV Tuner Card/Box

1. Start your computer.
2. Windows® automatically detects the ASUS TV Tuner Card/Box and displays the Found New Hardware Wizard window. Click **Cancel**.

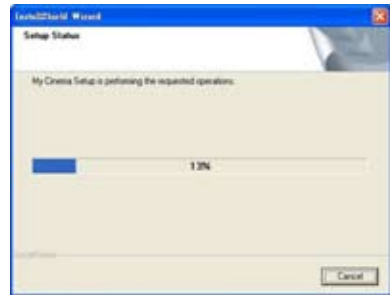


3. Insert the support CD into the optical drive. The Drivers & Utilities setup screen appears.

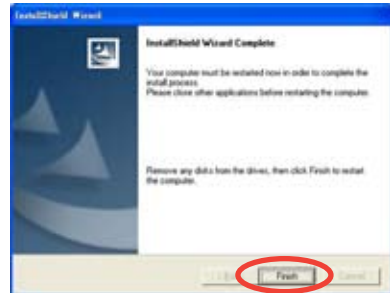
Click the radio button for **Windows® XP/Vista Basic**.
Click **Install Drivers**.



4. A progress bar appears to indicate the installation status.



5. After all necessary files have been installed in your system, click **Finish** to complete the driver installation process.



6. On the MCE Drivers and Utilities setup screen, click **Install MCE plug-in**.



The following step is only for the ASUS TV Box with an internal antenna.

7. Go to **MCE > More Programs > ASUS TV Setting**. Select the antenna you intend to use. Click **Apply**.



-
- You may connect an external antenna/roof antenna to the U9000 Diversity through an MCX-to-IEC adapter. An external antenna enhances the signal.
-

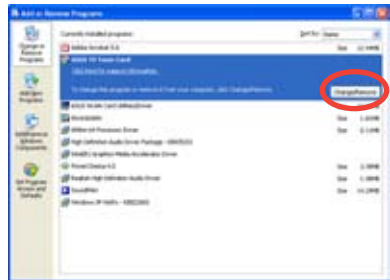
2.1.3 Uninstalling the driver

If you want to update the driver, or if you no longer need them, refer to this section to completely uninstall the drivers from your system to save disk space.

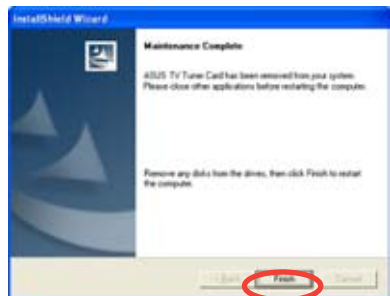
1. Click **Start > Control Panel**.
2. Double-click the **Add or Remove Programs** icon.



3. Click the ASUS TV Tuner Card/Box Drivers from the list.
4. Click **Change/Remove**.



5. A dialog box appears. Click **OK** to completely remove all ASUS TV Tuner Card/Box components. Otherwise, click **Cancel**.
6. Close other applications before restarting the computer. Click **Finish**.



2.2 CyberLink® PowerCinema (optional)



If you are running Windows® MCE/Vista Premium, you cannot watch TV using the CyberLink® PowerCinema and MCE application at the same time.

This application allows you to watch TV and DVDs, listen to FM radio or music CDs, or browse pictures stored in your computer. Use the mouse or the remote controller to navigate through the user interface. For details on the remote controller, see **Appendix A.1**.



For more information on this application, refer to the Cyberlink PowerCinema User's Guide in the Support CD.

2.3 Arcsoft TotalMedia (optional)



If you are running Windows® MCE/Vista Premium, you cannot watch TV using the Arcsoft TotalMedia and MCE application at the same time.

This application allows you to watch TV and DVDs, listen to FM radio or music CDs, or browse pictures stored in your computer. Use the mouse or the remote controller to navigate through the user interface. For details on the remote controller, see **Appendix A.1**.

Using the ASUS PE9400 Combo:

- To watch NTSC TV, select **ASUS PE9400 BDA Analog TV Tuner** to scan channel in TV setting menu.
- To watch ATSC program, select **ASUS PE9400 BDA ATSC Tuner**, then select antenna to scan channel in TV setting menu.
- To watch Clear Qam program, select **ASUS PE9400 BDA ATSC Tuner**, then select cable to scan channel in TV setting menu.



For more information on this application, refer to the Arcsoft TotalMedia User's Guide in the Support CD.

2.4 Presto! PVR (optional)



If you are running Windows® MCE/Vista Premium, you cannot watch TV using the Presto! PVR and MCE application at the same time.

This application allows you to watch TV. Use the mouse or the remote controller to navigate through the user interface. For details on the remote controller, see **Appendix A.1**.



For more information on this application, refer to the Presto! PVR User's Guide in the Support CD.

2.5 ASUS Splendid Technology

ASUS Splendid Analog TV Video Enhancement Technology takes computer graphics capabilities to the next level by automatically enhancing image quality, depth, color intensity, and image details for the best visual results. With ASUS Splendid meeting high visual demands, watching movies and TV on your computer can indeed be a splendid experience.



ASUS Splendid Video Enhancement Technology makes colors come alive and brings out optimum brightness and contrast levels even in dark scenes. You may choose from four viewing profiles for different video viewing conditions. Select the profile that best suits your viewing environment: Enriched (Standard), Vivid Color (Color-enhanced), Theater (Cinematic effects), and Crystal Clear (Enhanced contrast).



2.6 ASUS VideoSecurity Online

VideoSecurity Online is a powerful monitoring and motion-detecting software. With video capture devices such as CCD, V8, digital Hi-8 and others, you can use VideoSecurity Online to:

- find intruders;
- monitor your environment;
- detect changes in a specified location; and
- know in advance who your visitors are.

Upon detection of any variation, VideoSecurity Online will do the following:

- Save the date/time information on when the condition started, and when to release tracing to a database file (watchdog.mdb).
- Capture the condition detected and save it into a bitmap file with reference to an image that represents the normal situation before VideoSecurity Online started detecting the variation. You may view any image processing software to view, modify, or distribute the image.



This database file is saved in the Programs folder.

VideoSecurity Online also lets you choose from four options on how to handle the variation or unusual condition detected.

2.7 ASUS EZVCR

ASUS EZVCR is a program that allows you to watch and record live TV on your PC or notebook. ASUS EZVCR also lets you to listen to radio programs on systems that support this function.



For more information, check the help file in EZVCR.

The image below shows the main ASUS EZVCR user interface window.



System requirements

Software

- Microsoft® Windows® XP with SP2 and Microsoft® DirectX 9 or above.
- ASUS DVD 6.0

Hardware

- ASUS TV Tuner device
- Sound card
- Processor: Intel® Pentium 4 2GHz or above, AMD K7-2000+ or above, Intel® Centrino 1G or above
- Memory: At least 256 MB
- VGA card: At least 64 MB RAM
- Hard disk space: At least 500 MB free hard disk space

2.8 ASUS Eee PC Installation

For ASUS Eee PC Linux OS, there are two ways to install drivers and applications: with or without Internet connection.

If you have Internet connection, follow these steps (recommended):

1. Connect to the Internet.
2. Select the **Setting** tab, and click the **Add/Remove** icon.
3. Select the **Play** tab, click the TV driver and TV application to install the driver and application.
4. Restart the Eee PC.

If you do not have Internet connection, follow these steps:

1. Copy the file to the home directory.
2. Press **Ctrl+Alt+T**.
3. In the console, type **sudo su** to get root privilege.
4. Type **tar xvfz dvbt-4eeepc.tar.gz**
5. Type **install-xxxx** to install the driver and application.
6. Reboot for the changes to take effect.



For ASUS Eee PC Microsoft® Windows® OS, refer to section **2.1: Device driver installation** to install drivers and applications.

After the installation, you can run the application from the icon displayed on the desktop.

Watching TV programs on your Eee PC:

1. Press **F1** to select the country when launching first time.
2. Press **F1** to select the scan channel.
3. Close the TV application to save the channels.
4. Restart the TV application and enjoy watching TV programs on your Eee PC.



The steps above are based on ASUS U3100 mini, and It might be different when using other ASUS TV product. Download the latest driver and read the instructions from the ASUS website at www.asus.com.

2.9 ASUS Plug and Play TV *(optional)*

ASUS Plug and Play TV is a user-friendly application that delivers better TV experience. With ASUS Plug and Play TV, you can watch TV programs by just plugging a USB dongle.

2.10 ASUS Pop-up TV *(optional)*

ASUS Pop-up TV is a user-friendly application that delivers better TV experience. With ASUS Pop-up TV, you can watch TV programs by just plugging a USB dongle.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Appendix

This chapter includes information on the optional remote controller, key table, and international TV systems and standards.

Reference information

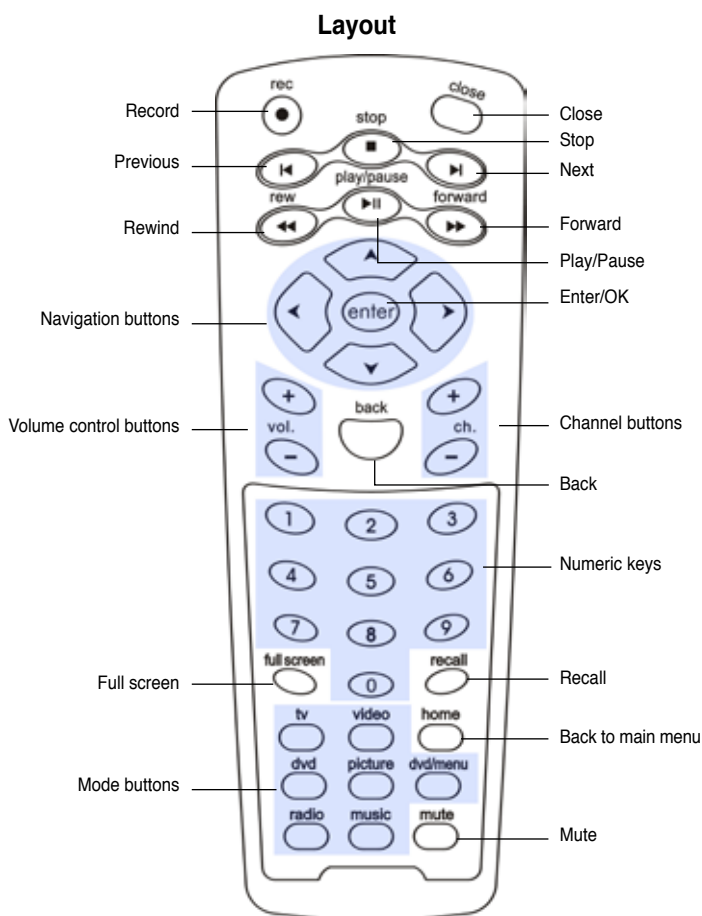
A.1 Remote controller (optional)

The optional remote controller is designed for the CyberLink® PowerCinema software application only. Use the remote controller for an enjoyable TV-watching experience through the CyberLink® PowerCinema windows.






















Remote controller specifications

Operating range	5 meters (max)
Power source	3 V (2 x “AAA” batteries)
Receiver	Infrared receiver (supplied)








A.1.1 39-key remote controller



Key table

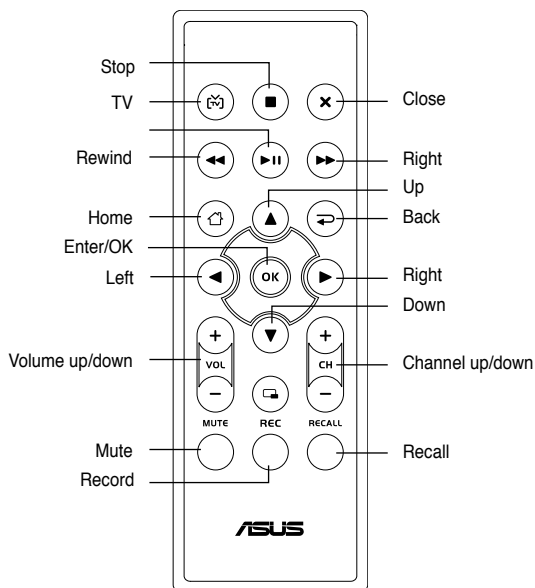
Button	Mode					
	TV	FM	DVD	VIDEO	PHOTO	MUSIC
	TV mode	–	–	–	–	–
	–	Radio mode	–	–	–	–
	–	–	DVD mode	–	–	–
	–	–	–	Video mode	–	–
	–	–	–	–	Photo mode	–
	–	–	–	–	–	Music mode
	Back to main menu	Back to main menu	Back to main menu	Back to main menu	Back to main menu	Back to main menu
	–	–	DVD menu	–	–	–
	Mute	Mute	Mute	Mute	Mute	Mute
	Full screen	Full screen	Full screen	Full screen	Full screen	Full screen
	Back to previous channel	–	–	–	–	–
	Back to previous page	Back to previous page	Back to previous page	Back to previous page	Back to previous page	Back to previous page
	Channel up/down	Search forward/backward	Next/previous chapter	–	–	–
	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down
	0 ~9	0 ~9	0 ~9	–	–	–
	Enter	Enter	Enter	Enter	Enter	Enter
	Up	Up	Up	Up	Up	Up
	Down	Down	Down	Down	Down	Down
	Left	Left	Left	Left	Left	Left
	Right	Right	Right	Right	Right	Right
	Record	Record	Record	Record	Record	Record

(Continued on the next page)



















Button	Mode					
	TV	FM	DVD	VIDEO	PHOTO	MUSIC
	Close app	Close app	Close app	Close app	Close app	Close app
	Stop	Stop	Stop	Stop	Stop	Stop
	Previous chapter	Previous chapter	Previous chapter	Previous chapter	Previous chapter	Previous chapter
	Next chapter	Next chapter	Next chapter	Next chapter	Next chapter	Next chapter
	Rewind	Rewind	Rewind	Rewind	Rewind	Rewind
	Forward	Forward	Forward	Forward	Forward	Forward
	Play/pause	Play/pause	Play/pause	Play/pause	Play/pause	Play/pause

A.1.2 21-key remote controller

Layout

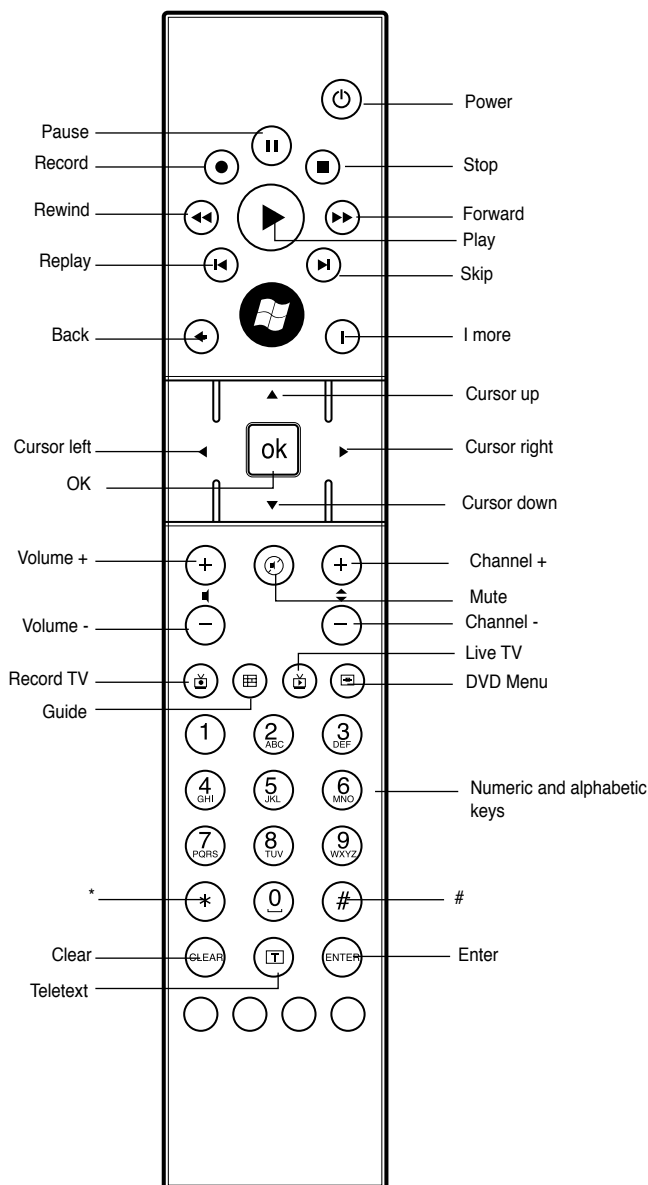


Key table

Button	Mode					
	TV	FM	DVD	VIDEO	PHOTO	MUSIC
	TV mode	–	–	–	–	–
	Stop	Stop	Stop	Stop	Stop	Stop
	Close	Close	Close	Close	Close	Close
	Rewind	Rewind	Rewind	Rewind	Rewind	Rewind
	Play/Pause	Play/Pause	Play/Pause	Play/Pause	Play/Pause	Play/Pause
	Forward	Forward	Forward	Forward	Forward	Forward
	Back to main menu	Back to main menu	Back to main menu	Back to main menu	Back to main menu	Back to main menu
	Back to previous	Back to previous	Back to previous	Back to previous	Back to previous	Back to previous
	Channel up/down	Search forward/backward	Next/previous chapter	–	–	–
	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down
	Enter	Enter	Enter	Enter	Enter	Enter
	Up	Up	Up	Up	Up	Up
	Down	Down	Down	Down	Down	Down
	Left	Left	Left	Left	Left	Left
	Right	Right	Right	Right	Right	Right
	Record	Record	Record	Record	Record	Record
	Mute	Mute	Mute	Mute	Mute	Mute
	Back to previous channel	–	–	–	–	–

A.1.3 46-key remote controller

Layout



Key table

Button	Mode					
	TV	FM	DVD	VIDEO	PHOTO	MUSIC
	Power	Power	Power	Power	Power	Power
	Pause	Pause	Pause	Pause	Pause	Pause
	Stop	Stop	Stop	Stop	Stop	Stop
	Record	Record	Record	Record	Record	Record
	Rewind	Rewind	Rewind	Rewind	Rewind	Rewind
	Play	Play	Play	Play	Play	Play
	Forward	Forward	Forward	Forward	Forward	Forward
	Replay	Replay	Replay	Replay	Replay	Replay
	Skip	Skip	Skip	Skip	Skip	Skip
	I more	—	—	—	—	—
	Back to previous	Back to previous	Back to previous	Back to previous	Back to previous	Back to previous
	OK	OK	OK	OK	OK	OK
	Up	Up	Up	Up	Up	Up
	Right	Right	Right	Right	Right	Right
	Left	Left	Left	Left	Left	Left
	Down	Down	Down	Down	Down	Down
	Channel up/down	Search forward/backward	Next/previous chapter	—	—	—
	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down	Volume up/down
	Mute	Mute	Mute	Mute	Mute	Mute
	Record TV	—	—	—	—	—
	Guide	Guide	Guide	Guide	Guide	Guide
	TV mode	—	—	—	—	—
	Back to DVD menu	Back to DVD menu	Back to DVD menu	Back to DVD menu	Back to DVD menu	Back to DVD menu
	0~9	0~9	0~9	—	—	—
	Clear	Clear	—	—	—	—
	Teletext	—	—	—	—	—
	Enter	Enter	Enter	Enter	Enter	Enter

A.2 International TV systems and standards (Analog TV)



- TV systems and standards may change anytime without notice. This list is provided for reference only.
- Ensure that your TV card conforms with the system or standard used in your country or location.

AREA	TV	STEREO	SUBTITLE
Albania	PAL B/G		
Argentina	PAL-N		
Australia	PAL B/G	FM-FM	Teletext
Austria	PAL B/G	FM-FM	Teletext
Azores Is. (Portugal)	PAL B		
Bahamas	NTSC M		
Bahrain	PAL B		
Barbados	NTSC N		
Belgium	PAL B/G	Nicam	Teletext
Bermuda	NTSC M		
Brazil	PAL-M	MTS	
Bulgaria	SECAM D		
Canada	NTSC M	MTS	CC
Canary Is.	PAL B		
China	PAL D		
Colombia	NTSC N		
Cyprus	PAL B		
Czech Republic	SECAM/PAL D/K		
Denmark	PAL B	Nicam	TeleText
Egypt	SECAM B		
Faroe Islands (DK)	PAL B		
Finland	PAL B/G	Nicam	TeleText
France	SECAM E/L		
Gambia	PAL I		
Germany	PAL B/G	FM-FM	TeleText
Germany (prev East)	SECAM/PAL B/G		
Gibraltar	PAL B		
Greece	SECAM B/H		
Hong Kong	PAL I	Nicam	
Hungary	PAL B/G	Nicam	
Iceland	PAL B		
India	PAL B		
Indonesia	PAL B		
Iran	SECAM H		
Ireland	PAL I	Nicam	TeleText

(Continued on the next page)

AREA	TV	STEREO	SUBTITLE
Israel	PAL B/G	Nicam	TeleText
Italy	PAL B/G	FM/FM	TeleText
Jamaica	SECAM M		
Japan	NTSC J		
Jordan	PAL B		
Kenya	PAL B		
Korea	NTSC M		
Luxembourg	PAL B/G		TeleText
Madeira	PAL B		
Madagascar	SECAM B		
Malaysia	PAL B		
Malta	PAL B/G		
Mauritius	SECAM B		
Mexico	NTSC M	MTS	CC
Monaco	SECAM/PAL L/G		
Morocco	SECAM B		
Netherlands	PAL B/G	FM-FM	TeleText
New Zealand	PAL B/G	Nicam	TeleText
North Korea	SECAM/PAL D, D/K		
Norway	PAL B/G	Nicam	
Pakistan	PAL B		
Paraguay	PAL N		
Peru	NTSC M		
Philippines	NTSC M		
Poland	PAL D/K		Teletext
Portugal	PAL B/G	Nicam	Teletext
Romania	PAL G		
Russia	SECAM D/K		
Saudi Arabia	SECAM B		
Seychelles	PAL I		
Singapore	PAL B		
South Africa	PAL I		
South Korea	NTSC N		
Spain	PAL B/G	Nicam	
Sri Lanka	PAL B/G		
Sweden	PAL B/G	Nicam	Teletext
Switzerland	PAL B/G	FM-FM	TeleText
Tahiti	SECAM KI		
Taiwan	NTSC M		
Thailand	PAL B		
Trinidad	NTSC M		
Tunisia	SECAM B		
Turkey	PAL B		TeleText
Ukraine	SECAM D/K		
United Arab Emirates	PAL B/G		
United States	NTSC M		
United Kingdom	PAL I		
Vietnam	NTSC/SECAM M/D		
Yugoslavia	PAL B/G		
Zambia	PAL B/G		
Zimbabwe	PAL B/G		

A.3 International TV systems and standards (DVB-T)

TYPE	LOCATION	BW	BAND
DVB-T+PAL	Australia	7 MHz	V/UHF
DVB-T+PAL	Austria	8 MHz	UHF
DVB-T+PAL	Belgium	8 MHz	UHF
DVB-T+PAL	Denmark	8 MHz	UHF
DVB-T+PAL	Estonia	8 MHz	UHF
DVB-T+PAL	Faroe Island	8 MHz	UHF
DVB-T+PAL	Finland	8 MHz	UHF
DVB-T+PAL	France	8 MHz	–
DVB-T+PAL	Germany	7/8 MHz	V/UHF
DVB-T+PAL	Hungary	8 MHz	UHF
DVB-T+PAL	Italy	7/8 MHz	V/UHF
DVB-T+PAL	India	–	–
DVB-T+PAL	Ireland	8 MHz	UHF
DVB-T+PAL	Latvia	8 MHz	UHF
DVB-T+PAL	Lithuania	–	–
DVB-T+PAL	Luxembourg	–	–
DVB-T+PAL	Netherland	8 MHz	UHF
DVB-T+PAL	Norway	8 MHz	UHF
DVB-T+PAL	Poland	8 MHz	UHF
DVB-T+PAL	Portugal	8 MHz	UHF
DVB-T+PAL	Singapore	8 MHz	UHF
DVB-T+PAL	Slovakia	–	–
DVB-T+PAL	Slovenia	7/8 MHz	V/UHF
DVB-T+PAL	S-Africa	8 MHz	UHF
DVB-T+PAL	Spain	8 MHz	UHF
DVB-T+PAL	Sweden	8 MHz	UHF
DVB-T+PAL	Switzerland	8 MHz	UHF
DVB-T+PAL	UK	8 MHz	UHF
DVB-T+NTSC	Taiwan	6 MHz	UHF

A.4 International TV systems and standards (ATSC)

TYPE	LOCATION	BW	BAND
ATSC	USA	6 MHz	V/UHF
ATSC	Canada	6 MHz	V/UHF

A.5 International TV systems and standards (DMB-TH)

TYPE	LOCATION	BW	BAND
DMB-TH	China	8 MHz	V/UHF
DMB-TH	Hong Kong	8 MHz	V/UHF